SLOVENSKÁ AKADÉMIA VIED
KABINET MATEMATIKY
BRATISLAVA, Ulica Obrancov mieru 41

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Dr.Joshua Lederberg,
Professor of Genetics,
Stanford University School of Medicine,
Palo Alto, California,
U.S.A.

Vaša značka | Naša značka | Váš list | V Bratislave dňa June 7, 1965.

Vec:

Dear Dr. Lederberg:

Prof. Kotzig informed us in his seminary on graph theory about your very interesting problem and he showed us your works.We can see that our interests are very close.

As to your problem, I discovered that polyhedra with requested properties do exist.One of them /with 28 vertices/ is drawn on the Figure. The red edge is contained in no of 10 Hamilton lines of the graph.What is the connection between this problem and your research ?

The number of vertices /46/ in famous Tutte's example can be diminished. 5 years ago Prof. Kotzig constructed /but he did not published/ a non-Hamilton trivalent convex polyhedron with 44 vertices.Lately I constructed a similar example with 38 vertices.

I cannot understand the following sentence in your article "Hamilton circuits of convex trivalent polyhedra": "As Grace has noted, his criterion for isomorphism ... is not strictly sufficient and his list may still be incomplete."

I am sending you some reprints of papers of Prof. Kotzig and one of mine /most of them is either in English or with an English summary/.

We expect with interest your further results.

Yours sincerely

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